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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re United States Patent Application of:**

**Applicants: GAO, Zhiqiang, et al.**

**Application No.: 10/577,293**

**Date Filed: April 29, 2006**

**Title: METHOD FOR DETECTING  
ANALYTES BY MEANS OF  
AN ANALYTE/POLYMERIC  
ACTIVATOR BILAYER  
ARRANGEMENT**

**Docket No.: 4276-103**

**Conf. No.: 8043**

**Art Unit:**

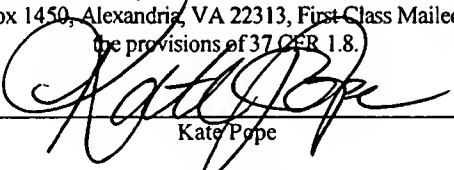
**Examiner: Not Yet Assigned**

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Kate Pope

**November 7, 2006**

Date of Mailing

**INFORMATION DISCLOSURE STATEMENT IN  
U.S. PATENT APPLICATION NO. 10/577,293**

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Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO/SB/08A. One copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

Respectfully submitted,



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**Enclosures:**  
**IDS Forms [ 3 pg(s).]**  
**Non-Patent References [ 86 pgs.]**  
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/577,293
Filing Date	4/29/2006
First Named Inventor	Gao et al.
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	4276-103

Sheet 2 of 3

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AG	BAKKER, ERIC, ET AL., Electrochemical sensors, Anal. Chem., June 15, 2002, Page(s) 2781-2800, Volume 74, Number 12	
	AH	BESTE, GERALD, ET AL., Small antibody-like proteins with prescribed ligand specificities derived from the lipocalin fold, Proc. Natl. Acad. Sci. USA, March 2, 1999, Page(s) 1898-1903, Volume 96, Number 5	
	AI	BU, HAI-ZHI, ET AL., Modification of Ferrocene-Containing Redox Gel Sensor Performance by Copolymerization of Charged Monomers, Anal. Chem., November 15, 1996, Page(s) 3951-3957, Volume 68, Number 22	
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	AK	CARUANA, DAREN J., ET AL., Enzyme-Amplified Amperometric Detection of Hybridization and of a Single Base Pair Mutation in an 18-Base..., J. Am. Chem. Soc., February 3, 1999, Page(s) 769-774, Volume 121, Number 4	
	AL	ERRKILA, KATHRYN E., ET AL., Recognition and Reaction of Metallointercalators with DNA, Chem. Rev., September 1999, Page(s) 2777-2795, Volume 99, Number 9	
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	AN	PARK, SO-JUNG, ET AL., Array-Based Electrical Detection of DNA with Nanoparticle Probes, Science, February 22, 2003, Page(s) 1503-1506, Volume 295, Number 5559	
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	AP	TAKENAKA, SHIGEORI, ET AL., DNA Sensing on a DNA Probe-Modified Electrode Using Ferrocenylnaphthalene Diimide as the Electrochemically Active Ligand, Anal. Chem., March 15, 2000, Page(s) 1334-1341, Volume 72, Number 6	

Examiner Signature	/Gurpreet Kaur/	Date Considered	09/03/2009
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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First Named Inventor

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	AQ	XIE, HONG, ET AL., Amperometric Detection of Nucleic Acid at Femtomolar Levels with a Nucleic Acid/Electrochemical Activator Bilayer on Gol, Anal. Chem., March 2004, Page(s) 1611-1617, Volume 76, Number 6	
	AR	ZEMAN, STEVEN M., ET AL., Characterization of covalent Adriamycin-DNA adducts, Proc. Natl. Acad. Sci. USA, September 29, 1998, Page(s) 11561-11565, Volume 95, Number 20	
	AS	ZHANG, YONGCHAO, ET AL., Enzyme-Amplified Amperometric Detection of 3000 Copies of DNA in a 10-L Droplet at 0.5 fM Concentration, Anal. Chem., July 1, 2003, Page(s) 3267-3269, Volume 75, Number 13	
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Date  
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